WO 2005/001708 PCT/AU2004/000857

FIG. 1: The Crosswalks Dilemma Illustrated—17 Ontologies Require 272 Crosswalks

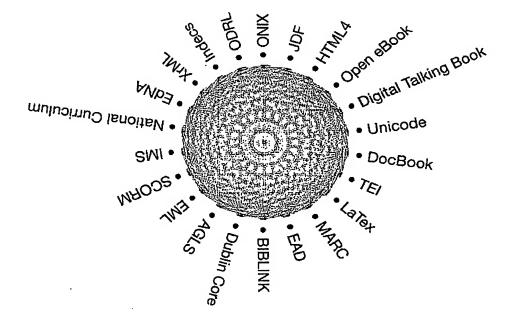


FIG. 2: The Indefinitely Extensible Interlanguage Mechanism—Common Ground Markup Language (CGML) as an example.



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FIG. 3: Using the Interlanguage Mechanism, the Number of Mappings Equals the Number of Mapped Schemas (in this case n = 17)

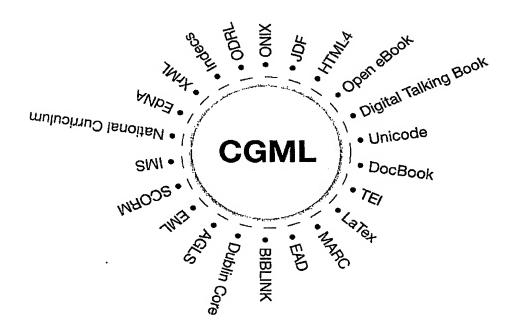


FIG. 4: The method of operation of the Interlanguage apparatus.

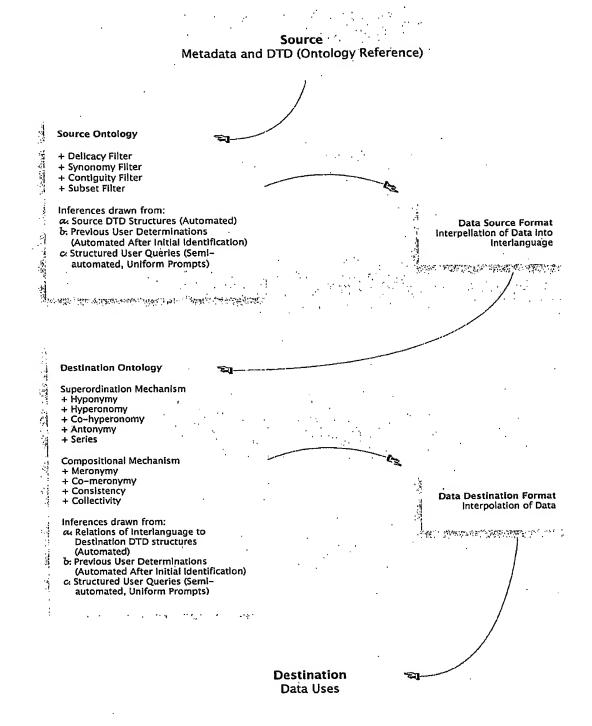


FIG. 5: Ontology-Building Apparatus—CGLexicographer.

icture Properties	
Tag-Concept	Country Of Publication
Dictionary Definition	The country in which a <ref id="CGPublisher"></ref> or an <ref id="CGImprint"></ref> officially publishes a particular <ref id="CGProduct"></ref> .
Description	
•	
Children	CG35mmSlideProjector CGAGLS CGASPContractsDelegation CGAbbreviation CGAbbreviation CGAbbreviation CGAbbreviation CGAbbreviation CGAbreviation
Schema Synonyms	ONIX <countryofpublication> MARC<008,044\$c></countryofpublication>
Data Type	

FIG. 6: Data entry area in CGPublisher (formerly named the Creator-to-Consumer (C-2-C) System. Using the invention, data can be exported into multiple ontologies.

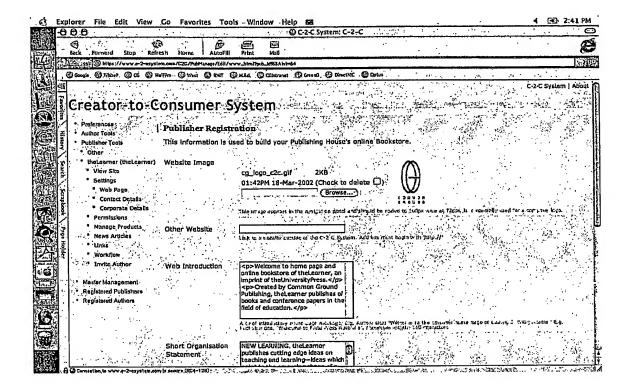
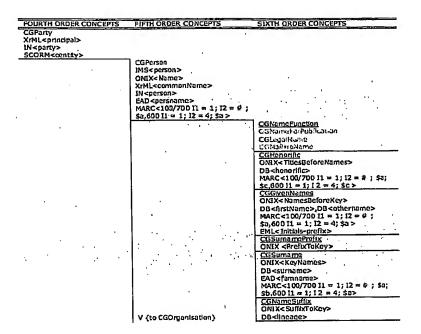


FIG. 7A: Example of Taxonomic Representation of Tags Relations in overlapping Ontologies, as Generated by the Invention with First to Fourth Order Concepts

RST ORDER CONCEPT	SECOND ORDER CONCEPTS		FOURTH ORDER CONCEPT
eot element) Meaning			
	CGPunction		
		CGSemantic Ground	
	1	1	CGParty
			CGLocation CGDateAndTime
			CGSubject
			Lesubject
		CGCreation	CGCreator
	1		CGContributor
	1	l l	CGDesign
	ł	1	CGTitle
			CGStatus
	!	<u> </u>	CGDescription
	1	1	CGLanguage
			CGRelation
	1	,	CGSource
			CGPublisher
•	j.	i	CGRights
	i	1	CGIdentifier
			CGFormat
	İ	1	CGStructure
	ł		CGExtemals
	1	CGDistribution	
		200000000000000000000000000000000000000	CGAudlence
	1		CGAvallability
	l .		CGConsumer
			CGTransaction
	1		CGItem
	1		CGDelivery
			CGProvenance

FIG. 7B: Example of Taxonomic Representation of Tags Relations in overlapping Ontologies, as Generated by the Invention with Fourth to Sixth Order Concepts



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FIGURE 8 shows a fragment of the Dublin Core to CGML Thesaurus.

CGML Tod concept	DC Tag- concept	DC Values, Qualifers
CGTILLE CGPreviousTRIC	DC <tute></tute>	Ostinitian: A name given to the resource. Comments Privally, a Tive able on a name by which the resource is formedly known. Exemplary Qualifiers: Label: Alloranize: Definition Any form of the Unioused as a substitute or a remaining the time formed the resource. Definition Any form of the Unioused as a substitute or a remaining the time formed the resource. ANGLE ANGLE This Qualifier can include a Tile abbreviations a swell as transitions.
CGCreator	bč «Creator»	Definition: As cuttly primarity reparable formating the contactal them scores. Comment: being less of Centure induce a person, an organisation, or a servici. Typically, the name of a Creaturishold by Useful by Usefu
CGEIPLAIAGLCoubleATZRIPIG CGEOPAC	OC «Subject»	Definition: This topic of the content of the macurus. Comment: Platch by Ashipted with the expension as the year's, key physics and assistation code that describe a topic of the "estimate, the commended bustpraction is to sale cta value from a controlled variability or form all desaifix a lens often a controlled variability or form a lide of the controlled variability. Label LC Comment
CGMedicalClassification CGDevcyClassification	}	Definition: Libraryof Congress Subject Headings MARC court 610, 611, 610, 630> Labels MCSH
CGLibraryOfCongressClassi cation		Definition: Medicatius (natheadings See also: <u>http://mwa.nlm.mth.cov/mesh/mesh/meshhimo.ntml</u>)AAAC < 600, 610. 611, 610, 630 - Labet: <u>DDC</u> Osfution: Devey Decimal (";sssification Sepalso: <u>http://www.sdc.com/soxov/index.ntm/AAC <027 ></u>
CGUniversiDodmaiCuscif alian		Label: LCC Ostration: Ubmryol Congress Eleastrication Sea also intro-l/from his convigator/map/fcco/from html/fAAC costrates: Ubmryol Congress Eleastrication Sea also intro-l/from usoc on/fAAC costrates: United by the costrates: United by the costrates: United by the costrates: United by the costrates of the c

FIGURE 9 shows a fragment of the CGML Dictionary of Authorship and Publishing specifying the concepts of <Creation> and <Creator>.

NOTATION	DEFINITION	ANNOTATION
Tag-Concept.	. Dictionary definition based on .	Examples, related child concepts, data
	parent concepts.	entry advice.
CGCreator	The process of realising Meanings which serve particular communicative or representational Functions.	Involves Creators and Contributors, developing a Design, which is expressed as a Work and is manifestin the form of a Product, Event or Service. A Design has a Title and may vary in Status (as it evolves, for instance, from Proposal, to Draft, to Edition). It may have a Description which summarises or overviews its content. In the case of text, it will be expressed in a particular Language. It may sit in a defined Relation to other Designs, Work or Products, and this may be specified as a Source. Distribution may be the responsibility of a Publisher, on the basis of an assignmentor licensing of Rights. It may have an Identifier in the form of a unique string of numbers and/or letters such as an ISBNor a URL. It will have a Formatand an inherentand characteristic Structure, and also possibly Externals which exists pecifically in order to relate to the Work, for example by way of Review or Promotional Matter.
CGCreatar	A Personwho, or an Organisationwhich, plays a primaryrole in the conceptualisation of a creative Design and the execution of a Work. An essential Party to the process of Creation.	Includes the roles of Author, Editor, Scriptwriter, Lyricist, Composer, Visual Artist, Photographer and Conference Presenter.

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